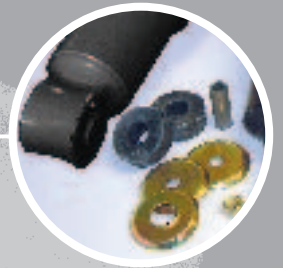
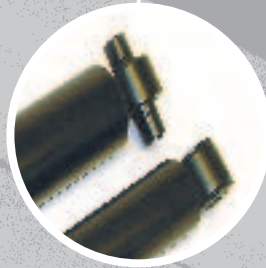




MERITORTM

Commercial Vehicle Aftermarket - Europe

The New Generation of Shock Absorbers



The new generation of Meritor shock absorbers



- A complete range of Commercial Vehicle shock absorbers supplied in the "Meritor" brand is available from ArvinMeritor's European Commercial Vehicle Aftermarket.
- Meritor worldwide manufactures over 50 million units per year with over 30% being produced for supply as Original Equipment to the Vehicle Manufacturers.
- The current Commercial Vehicle catalogue contains some 600 references and the product is supplied in the new "Meritor" branded packaging.
- Range extensions for new models and applications are continuously being introduced ensuring that Meritor maintains a market leading position.
- The company created the first vehicle "shock absorbing" product in 1907, and has been since then, a leader in innovative product technology for all types of vehicles – for cars, light and heavy commercial vehicles, off-highway and specialty vehicles, vehicle cabins, trains, suspension bridges and numerous other non-vehicle applications.
- The new generation of "ultra performance" shock absorbers was introduced in 2002, which includes the company patented "piston" technology, and is found in all Meritor shock absorbers.



The "ultra performance" Meritor shock absorber

The shock absorbers fitted to a vehicle have to fulfill three key requirements - safety, comfort and longevity. A poor performing shock absorber can detrimentally affect the road holding and stopping distance of a vehicle, together with the potential risk of shifting loads whilst being transported.

The "ultra performance" generation of Meritor shock absorbers has been designed to improve on each of these requirements and incorporates three major technological innovations which the Company has achieved through extensive continuous research and development, thanks to its engineering know-how in ride control technology, and its strategy aimed at achieving consistent and high levels of quality.

3 major technological innovations

Greater longevity and a perfect seal thanks to "MPP" technology

The rod is the central component of the shock absorber, sliding in and out of the shock absorber body through a seal. This seal has to prevent any external pollution from entering the shock absorber and any loss of oil from the shock absorber (or gas when applicable). If the surface of the rod is rough, this will damage the seal and the shock absorber will start to leak.

Our "MPP" technology provides a unique quality of surface finish and smoothness of the rod preventing premature wear.

Increased comfort and endurance with "over-moulded PTFE piston ring" technology

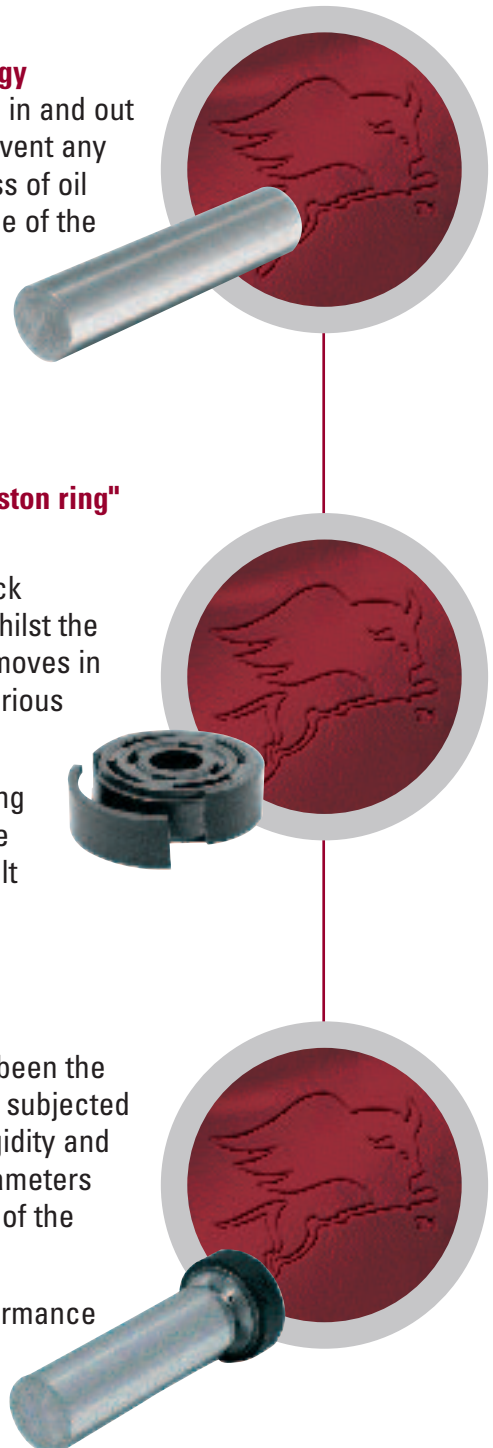
The piston, the metal part fixed to the end of the rod of the shock absorber, responds to the movements of the vehicle chassis, whilst the body of the shock absorber, within which the piston operates, moves in relation to the wheels. As the piston moves it is subjected to various pressure constraints, transverse pressure and friction.

The Company has developed a unique technology, over-moulding the piston with a PTFE Teflon coating – the PTFE ring covers the complete piston, dramatically diminishing friction and as a result reducing wear, guaranteeing prolonged driving comfort.

Increased safety with "valve all discs" technology

In general, the valve technology used in a shock absorber has been the helical spring. Springs are fixed on both sides of the piston and subjected to permanent pressure as oil passes through the piston. The rigidity and resistance of the helical springs depend upon a number of parameters (the number of spirals, the diameter of the spring, the diameter of the spiral etc).

This feature provides precise control over the quality and performance of the Meritor shock absorber – essential for this safety critical product.





MERITOR[™]

an *ArvinMeritor* brand

Europe's Leading Manufacturer and Aftermarket Supplier of Axle, Suspension and Braking Systems.

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